

Research Questions:

- Are the antecedents of divergent outcomes for children of immigrants found in the characteristics of the home environment, access to resources and parenting practices?
 - What is the influence of home environment on outcomes for second generation children in early childhood?
 - To what extent does parents' age at arrival in the United States help explain diverse outcomes for the new second generation?

Background....

- Research on the "new" second generation faces the difficult task of exploring the origins of their possible "divided fates"
 - The link to immigration cannot be completely dichotomized
- Parents' age at arrival may account for differences is parenting practices
 - US parenting styles vs. parenting styles from the country of origin.

Background....

- Children's outcomes may be associated with those characteristics subsumed under parental nativity
 - language background
 - national origins
 - generation status/age at arrival in the U.S.
 - race/ethnicity
- New datasets provide increasingly good data for the study of children from very diverse backgrounds

Hypotheses

- Family resources and access to external resources will mediate the relationships between race, ethnicity and mother's nativity and the child's cognitive outcomes over time.
- Home environment will moderate the relationship of cognitive development and mother's nativity.
- Mother's age at arrival in the United States will be associated with cognitive development.
 - Positive association = protective environment
 - Negative association = US socialization advantage

Data and Methods:

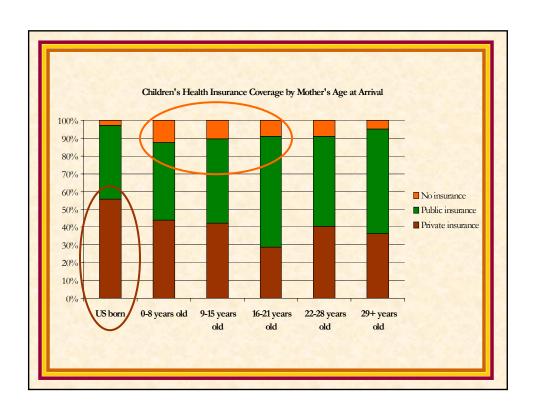
- Early Childhood Longitudinal Study-Birth Cohort (ECLS-B), waves 1 and 2.
 - Large, representative sample of children born in 2000
 - Ethnically diverse sample with many children from immigrant families.
 - Bilingual interviews (Spanish and Mandarin) and translators for interviews (Cantonese or Vietnamese).
 - Detailed Information on Child Cognitive, Motor and Socio-emotional development from infancy through early childhood.

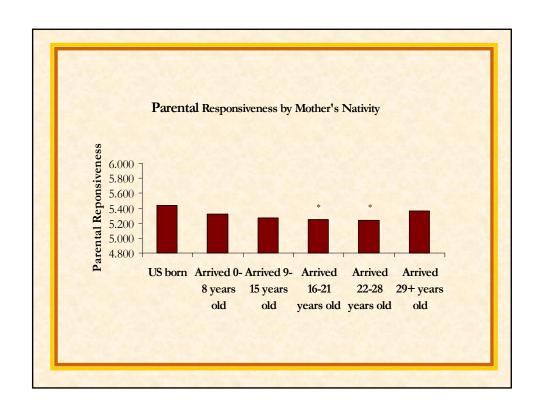
Children's cognitive development:

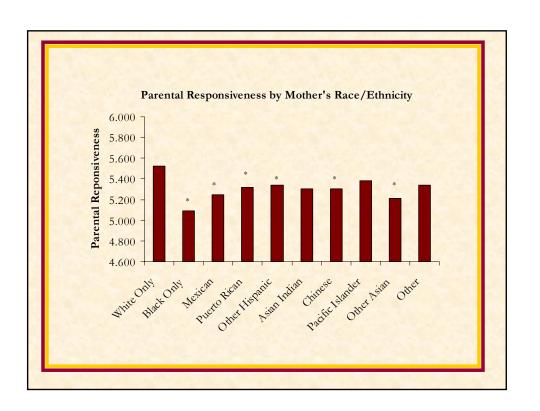
- Regression models predicting cognitive development at wave 2
 - Children are approximately 24 months old.
- Bayley assessment of cognitive development
 - including memory, exploratory competence, object permanence and communication
- Missing Data
 - Results with multiple imputation substantively similar to those dropping lost cases.

Data and Methods:

- Predictors (from wave 1):
 - Child Characteristics
 - Age, sex, birth weight, previous cognitive scores, mother's age
 - Language of assessment
 - Characteristics associated with mother's nativity
 - Home language, race/ethnicity, age at arrival
 - Home Resources
 - Mother's education, family income, mother's employment status, health insurance status, family structure, number of older siblings
 - Home Environment
 - Parental play scale, parental responsiveness scale, frequency of reading to child.







- Children's own characteristics are associated with cognitive development
 - Low birth weight is significantly associated with lower scores
 - Cognitive development at wave 1 is associated with scores at wave 2

	Model 1	Model 5
Child' Characteristics	β	β
Female	0.303 ***	0.313 ***
Child's age at Wave 1	-0.087 ***	-0.065 ***
Interviewed in home language	0.317 ***	0.050
Moderate birthweight	-0.267 ***	-0.232 ***
Low birthweight	-0.595 ***	-0.570 ***
Standardized Wave 1 Mental Scale score	0.296 ***	0.238 ***
Intercept	0.090	0.064

Source: Early Childhood Longitudinal Study-Birth Cohort, waves 1-2 and lost to follow up between waves 1 and 2.

- Children with foreign born mothers have lower scores than children with US born mothers:
 - Racial/ethnic variation is significant but reduced when home resources are controlled
 - Effect of mother's age at arrival is not linear.
 - Non-English home language associated with lower scores.

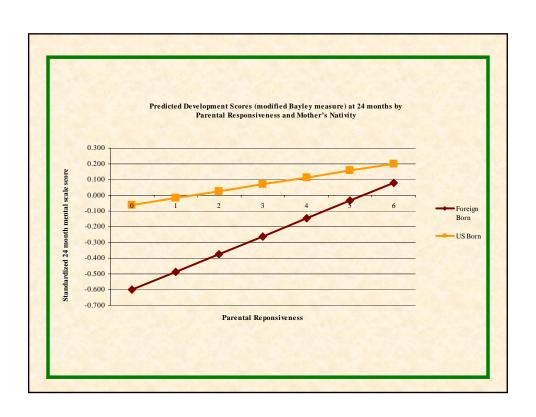
Regression of Standardized 24 Month M		Model 3	Model 5
		β	β
Primary	Home Language	P	P
DEGLESSOR STATE OF THE PROPERTY OF THE PROPERT	English Language	-0.139 **	-0.104
Mother's age at arriv			
	0-8 years old		
	9-15 years old		
	16-21 years old		
	22-28 years old	-0.234 ***	-0.153 *
	29 + years old	-0.415 **	-0.233
Mom's Race	(vs. White Only)		
	Black Only	-0.388 ***	-0.224 ***
	Mexican	-0.364 ***	-0.208 **
	Puerto Rican	-0.263	-0.172
	Other Hispanic	-0.287 ***	-0.178 **
	Asian Indian		-0.100
	Chinese	0.381 ***	0.254 ***
	Pacific Islander		-0.185
	Other Asian		-0.062
	Other	-0.155	-0.080
:: Early Childhood Longitudinal Study-Birth			
t, waves 1-2 and lost to follow up between wave	Intercept R ²	0.620 ***	0.064

- Home Resources are important:
 - Higher income associated with higher scores.
 - Mother's education is associated with higher scores.
 - Children with private health insurance coverage have higher scores than those with no coverage or those with public insurance.

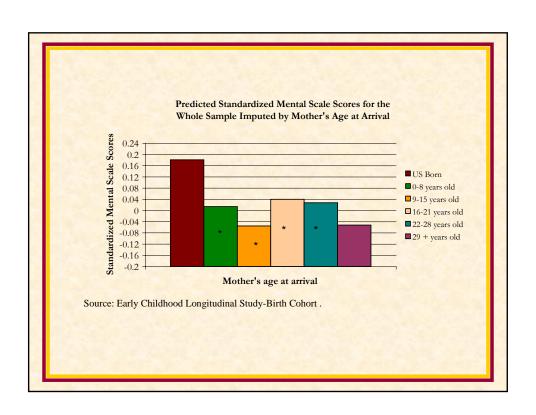
ge at Arrival
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Source: Early Childhood
Longitudinal Study-Birth
Cohort, waves 1-2 and
lost to follow up between
waves 1 and 2.
waves I and 2.

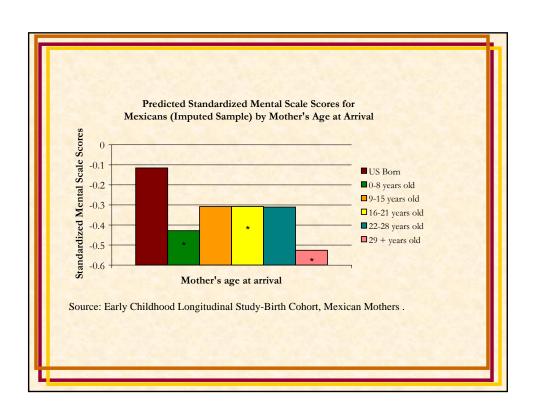
- Home Environment is important and reduces variation by mother's nativity and race/ethnicity.
- Interaction of parental responsiveness and mother's nativity suggests gaps in cognitive development are highest at the lowest levels of responsiveness.



- Children's scores also vary by mother's age at arrival.
- Controlling for family resources and home environment, children whose mothers arrive as children or adolescents seem to have lower cognitive scores.
 - Selectivity of the mothers by age
 - Exposure to constraints in the United States



• And, results vary by race/ethnicity suggesting important differences across groups.



Discussion:

- Family resources (i.e. income), access to resources (i.e. health insurance) partially mediate the relationships between race/ethnicity, mother's nativity and children's cognitive development.
- Home environment (i.e. parental responsiveness and reading to children) also partially mediates the relationship between race/ethnicity, mother's nativity and children's cognitive development.
 - Home environment suppresses higher scores among Chinese origin and reduces difference in scores for blacks and Mexicans.

Discussion:

- There is an interaction between mother's nativity and responsiveness. More responsive parenting is associated with smaller nativity gaps in cognitive scores.
- Children's developmental paths seem to diverge by mother's age at arrival (particularly among black and Mexican origin). There is no difference in the scores for children of Chinese origin mothers by mother's nativity.
- But, questions remain about the nature of tests of cognitive development
 - Lower scores among those from non-English homes persist regardless of controls for mother's age at arrival, race/ethnicity and home environment.

Next Steps...

- Consider other characteristics associated with the home environment:
 - Household Composition (other adults, etc.).
 - Childcare Arrangements (will center based care be positively associated with outcomes?)
- Expand outcomes
 - Health status (how does access to care affect children's trajectories over time?)
 - School Readiness (wave 3)

